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l2 and hydrophobic same (increas\$) near7 (durab\$ or run)	0

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L13

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*DB=USPT; PLUR=YES; OP=ADJ*L13 l2 and hydrophobic same (increas\$) near7 (durab\$ or run)0 L13L12 l2 and particles same (increas\$) near7 (durab\$ or run)0 L12L11 l2 and thermoplastic same (increas\$) near7 (durab\$ or run)0 L11*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*L10 L9 and particle size near10 durab\$1 L10L9 agfa\$.as.15750 L9*DB=USPT; PLUR=YES; OP=ADJ*L8 L7 and particle near2 (size or diameter) near15 (run or durab\$)5 L8L7 ((101/453 |101/454 |101/455 |101/456 |101/457 |101/458 |101/459
|101/460 |101/461 |101/462 |101/463.1 |101/464 |101/465 |101/466
|101/467)!.CCLS.)2250 L7L6 ((101-453-467/)!.CCLS.)0 L6L5 l1 and particle size same durab\$2 L5L4 l1 and size same run length1 L4L3 l1 and particle size same run length0 L3L2 L1 and throughput115 L2L1 agfa\$.as.4039 L1

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☐ 1. Document ID: US 5837421 A

L6: Entry 1 of 1

File: USPT

Nov 17, 1998

DOCUMENT-IDENTIFIER: US 5837421 A

TITLE: Water-developable photosensitive resin composition

US Patent No. (1):

5837421Brief Summary Text (52):

Copolymer (1) is preferably in a granular form, and is prepared in a mean particle size of from 5 to 800 nm, preferably from 10 to 300 nm, more preferably from 30 to 200 nm. If the particle size is larger than 800 nm, the resulting composition will not exhibit any reasonable plate making property when it is used for resin plate fabrication, nor will it have any desired strength. If the particle size is smaller than 5 nm, the resulting composition will have only poor rubber elasticity and unfavorable water developability. The particle surface of the granular copolymer is rendered hydrophilic and the particle interior is rendered hydrophobic so that the water-developable photosensitive resin composition may have further improvement in its water resistance and water developability.

Current US Cross Reference Classification (3):430/302

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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*DB=USPT; PLUR=YES; OP=ADJ*L12 L11 not l8 32 L12L11 L10 not l4 41 L11L10 L3 and (strength or wear or run or durab\$ or copies) same (oleophilic or hydrophobic or lipophilic) same (particle or particulate or microcapsule) 55 L10*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*L9 L8 not l7 33 L9L8 agfa.as. and (strength or wear or run or durab\$ or copies) same (oleophilic or hydrophobic or lipophilic) same (particle or particulate or microcapsule) 37 L8L7 agfa.as. and (strength or wear or run or durab\$ or copies) same (oleophilic or hydrophobic or lipophilic) same (particle or particulate or microcapsule) near10 (size or diameter) 4 L7*DB=USPT; PLUR=YES; OP=ADJ*L6 l5 and l4 1 L6L5 ('5837421')[PN] 1 L5L4 L3 and (strength or wear or run or durab\$ or copies) same (oleophilic or hydrophobic or lipophilic) same (particle or particulate or microcapsule) near10 (size or diameter) 14 L4L3 L2 or l1 3301 L3L2 ((430/302)!.CCLS.) 1595 L2L1 ((101/453 |101/454 |101/455 |101/456 |101/457 |101/458 |101/459 |101/460 |101/461 |101/462 |101/463.1 |101/464 |101/465 |101/466 |101/467)!.CCLS.) 2250 L1

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